



# LONG RANGE AUTOMOTIVE/LONG RANGE AMERICA

Product Information/Install Instructions for

Toyota Land Cruiser FJ55 Series 1972-1980 *Petrol (Gas)*

Kit P/N TLC55R



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**NOTE:** This product is **NOT FOR SALE TO, OR USE BY, CALIFORNIA RESIDENTS**. This product has not been approved, certified, rated or otherwise passed upon by any Federal or State regulatory agency.



## PRODUCT INFORMATION/INSTALL INSTRUCTIONS

Toyota Land Cruiser FJ55 Series 1972-1980 *Petrol (Gas)*



Direct-fit extended range fuel tank to serve expedition, long-distance travel and hauling needs...buy fuel when the price is right and be prepared for the long haul. These tank kits from Long Range Automotive of Melbourne, Australia were developed to meet the needs of North American light truck and SUV owners. We provide additional fuel capacity from a high-quality aluminized steel auxiliary or replacement tank that integrates seamlessly with factory fuel systems and emission controls in North American vehicles. These tanks are built by specialists with three decades of experience, serving customers around the world.

Part Number	TLC55R
Type	Replacement
Capacity –Gallons	55.5
Fill Point	OEM
Fuel	Petrol/Gas
Location	Behind Rear Axle
Relocate Spare	YES
Exhaust	Standard

This tank **may** be installed by a general automotive shop or mechanically competent vehicle owner, given adequate tools, skills and the help of a friend. **We strongly recommend that, to avoid potential injury and property damage, the tank be installed by a trained professional.** Please call if you have pre-install questions (800-224-7801 x101 Ward Harris).



Long Range Automotive fuel tanks are imported by Long Range America, LLC  
LongRangeAmerica.com  
**1-800-224-7801**

## I. BEFORE YOU BEGIN

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### A. INTRODUCTIONS

1. We at **Long Range Automotive** (LRA) and **Long Range America** (LRAM) appreciate your selection of a Long Range Automotive fuel system for your vehicle. Please read this entire Guide before beginning installation.
2. This Guide provides information necessary to install this LRA product in your vehicle. PLEASE NOTE: We strive to be detailed and accurate with this information...however, errors and omissions can occur. Changes to install instructions can occur without notice. These Guides are constant works in progress...we are constantly working to make them as user-friendly, detailed and accurate as possible, and we welcome install feedback notes, photos, comments and suggestions to make them so. If you see an error or omission, or need additional information not provided in this manual, please contact Long Range America at 800-224-7801, extension 101 (Ward Harris).
3. **This product is designed to suit vehicles as delivered when new. Modifications such as suspension, skid plates, bumpers, hitches and other aftermarket additions may impact or prevent installation.**

### B. DO's AND DON'Ts

1. **DO: WE HIGHLY RECOMMEND ALL WORK TO BE COMPLETED BY A PROFESSIONAL INSTALLER.**
2. **DO:** Review these install instructions and plan your installation - tools, helpers and questions - ask ahead of time.
3. **DO:** Call 800-224-7801 ext. 101 (Ward Harris) with any questions - he will get you the right answer from the right source.
4. **DO:** Use **fuel rated thread sealer** or Teflon tape on all fittings.
5. **DO:** Keep all fuel lines away from the exhaust system and any sharp edges.
6. **DO:** Use Long Range Automotive fuel systems and parts in conjunction with original manufacturer's equipment or other Long Range Automotive systems and components.
7. **DON'T:** DO NOT have any open flames or heat sources in the installation area.
8. **DON'T:** DO NOT CUT any of the existing fuel pipes while in the vehicle or while attached to the fuel tank.
9. **DON'T:** DO NOT USE Long Range Automotive fuel systems and components with other aftermarket fuel systems. This type of use can result in malfunction and will void the Limited Warranty.

### C. SAFETY PREPARATIONS

1. **BEFORE BEGINNING INSTALLATION, TURN OFF THE KEY AND DISCONNECT THE VEHICLE BATTERY.**
2. **ALWAYS WEAR THE PROPER SAFETY EQUIPMENT (SAFETY GLASSES, HEARING PROTECTION, GLOVES, ETC. AS APPROPRIATE).**
3. **BE SURE TO KEEP HEAT, SPARKS AND OPEN FLAME AWAY FROM THE INSTALLATION AREA.**

## I. BEFORE YOU BEGIN *(continued)*

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### D. INSTALLATION KIT CONTENTS

HARDWARE	HOSES & CLAMPS	MISC PARTS
8 x M10 x 30mm Bolt	1 x 6mm Fuel Hose @ 78.7" Long	1 x 2.5mm Rod @ 11.8" Long (to extend float arm)
8 x M10 Nyloc Nut	2 x 8mm Fuel Hose @ 7.87" Long	2 x Secondary Bracket (1 left-hand, 1 right-hand)
8 x 10 x 25mm Washer	1 x 12mm Fuel Hose @ 11.8" Long	Magnet (to be used in new tank)
5 x M4 x 8mm Screw for Sender Unit	2 x 2" Hose Clamp	
	2 x 1/2" Hose Clamp	
	10 x 1/4" Hose Clamp	
BRASS	ELECTRICAL	
4 x P3 1/4" x 1/8" 6mm Straight Hose Barb		
2 x P3 5/16" x 1/4" 8mm Straight Hose Barb		
1 x P3 1/2" x 1/4" 12mm Straight Hose Barb		

## I. BEFORE YOU BEGIN *(continued)*

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### E. TOOLS NEEDED

1. Safety Items
  - a) Safety Glasses
  - b) Hearing Protection
  - c) Gloves
2. Ratchet Wrench
  - a) Metric Socket Wrench Set
  - b) Socket Extensions
3. Drill
  - a) Metric Drill Bit Set
4. Catch Pan/Spill Mats
5. Vehicle Owner's Manual
6. Mallet
7. Hydraulic Jack
8. Flat Screwdriver
9. Digital Multimeter
10. Fuel Rated Thread Sealer
11. Circuit Test Light
12. Glue or Glue Gun
13. Soldering iron and solder

## II. REMOVING THE OEM TANK/NEW TANK PREPARATION

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### A. REMOVE FUEL TANK

1. Remove spare wheel and spare wheel carrier from vehicle. These will not be reinstalled in their original location.
2. Remove OEM fuel tank from vehicle, being careful to disconnect all hoses and wires before dropping the tank down.

### B. PREPARE NEW TANK

**CAUTION: INSURE THERE IS NO FUEL LEFT IN/ON THE ASSEMBLY AND FUMES HAVE EVAPORATED BEFORE SOLDERING!**

1. Remove sender unit from OEM fuel tank.
2. Extend float arm using the rod included in the Installation Kit. **NOTE: DO NOT OVERHEAT THE UPPER ROD WHEN SOLDERING, THE CIRCUIT IN THE SENDING UNIT HEAD CAN BE DAMAGED.**
3. Allow for 0.4-inch (10mm) overlap on the float arm joint.
4. Drop supplied magnet into the tank, and locate as close to the fuel pickup point as possible.
5. Fit sender to new tank and check full/empty travel of float arm.
6. Screw brass fittings into tank:
  - a) The 2 x 5/16" straight barbs into the right-hand side for the fuel pickup (front fitting) and return line (rear fitting).
  - b) The 1/2" straight barb and the 4 x 1/4" straight barbs into the left-hand side of the tank.

### III. TANK INSTALLATION

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#### A. PUT NEW TANK INTO POSITION/CONNECT HOSES AND WIRES

1. Bolt the two new secondary brackets (1 left-hand, 1 right-hand) into position on top of the original rear tank mounting brackets.
2. Safely lift new tank into position, connecting the OEM filler pipe to the tank filler inlet and connecting the sender unit wires as it is lifted. Secure the tank with the new M10 x 30mm bolts and Nyloc nuts.
3. Finish connecting all other hoses.

#### B. FINISH INSTALLATION

1. Check all hose clamps and bolts for tightness.
4. Fill with fuel and check for leaks. **DO NOT OVERFILL OR "TOP OFF" TANK WHEN FILLING, DAMAGE TO YOUR EMISSION SYSTEM MAY RESULT.**
5. Reconnect vehicle battery.

#### IV. FINAL INSTALLATION CHECKLIST

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- A. Are all hose clamps tight and secure?
- B. Are all nuts and bolts secured?
- C. Are mounting brackets and straps secure?
- D. Are Fuel Gauge Sending Unit bolts secured?
- E. Are all fuel lines secure with no kinks?
- F. Does tank interfere with, or rub on, other vehicle components?
- G. Is tank calibration accurate?

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**Congratulations! You have completed the install!**





## LONG RANGE AUTOMOTIVE REPLACEMENT TANK USER GUIDE



### WELCOME

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And congratulations on the purchase of your new tank from Long Range Automotive of Melbourne, Australia. Properly installed and maintained, the tank is easy to operate and will provide you with years of service.

As North American agent, Long Range America is here to help along the way. Your first stop with questions about tank, installation and use is this guide, followed by a call to your installer and if need be, a visit to our website for more help.

Your kit is covered by a three-year limited warranty you can see on our website here <https://longrangeamerica.com/tank-warranty-registration/tank-limited-warranty/> and we strongly encourage you to register your purchase with us at this link <https://longrangeamerica.com/tank-warranty-registration/>

Why register? We want you to have a flawless experience, but some-times things happen (we need to make repairs, replacements, etc.). Registration is our way of keeping track of our tanks after they leave the warehouse.

We need to collect this information within thirty days of kit purchase – whether direct sale from LRAM or through one of our authorized dealers. In addition, we occasionally make improvements to our in-service products and there may even be recalls. For these reasons, we need this information. Please help us serve and support you!

### OPERATIONS

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#### **New Configuration:**

Your new tank is configured similarly to the OEM tank, and operates in a similar manner.

#### **Adding Fuel:**

The fill point is in the same location, and fills identically to the OEM tank.

#### **While Driving:**

The fuel gauge should function as with the OEM tank, though this can differ from vehicle to vehicle. In general the Long Range replacement tank has a greater surface area than the original tank, and there is a portion of fuel above the full limit of the float that needs to be used before the gauge starts to move. It is important to remember that the actual fuel gauge will read correctly at empty. Low fuel warning lights will generally come on at the same level as the original tank but with a greater reserve capacity as the tank has a larger surface area. There may be some variance due to the differing tank size. We suggest that to become familiar with how your fuel gauge registers once you have your Long Range tank fitted you refill your tank from quarter, half and three quarters of a tank and take note of the number of gallons you can put in. Another tip is to reset one of your trip meters every time you fill your tank, over time you will be able to establish how far you can travel in different driving conditions.

## QUESTIONS & SUPPORT

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### Frequently Asked Questions:

- **Will I fill the tank in the same way as before?** See instructions on page 9.
- **Will my fuel gauge work correctly?** See instructions on page 9.
- **Who do I call with questions, or for assistance?** Your first contact should be to the installer. If you are the installer, or if the installer cannot answer your question, please contact Long Range America in any of the following ways – **our business hours are 8am to 5pm (Pacific Time) Monday to Friday.**
  - Website via <https://longrangeamerica.com/support/> (see below)
  - Email via [service@longrangeamerica.com](mailto:service@longrangeamerica.com)
  - Phone via  
[1-800-224-7801](tel:1-800-224-7801)

And let us know how we can better serve you!

Best regards,

LONG RANGE AMERICA

